Name:

Teacher:

Geometry, Period

**Geometry**

HW #2: Intro to Linear Equations & Graphs

Due: Tuesday, September 8th

Directions: Failure to use complete sentences will result in LaSalle. Remember: WHY > HOW > WHAT. If you get stuck do not leave the problem blank, attempt the problem, write down questions/ reasons you are stuck.

1. **Burgers:** At Burger King you can get 2 Whoppers for $5.

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| --- | --- | --- |
| How many burgers could you get with $40? | | How much would 20 burgers cost? |
| Graph this situation.  How should you label your axes?  Does this graph make a line? Why does this make sense?  What is the slope? What does this number mean? | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | |

1. **Analyzing Tile Patterns:**

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| --- | --- |
|  | Draw the next figure: |
| |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Figure Number (x) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | Number of Toothpicks  F(x) |  |  |  |  |  |  |  |  |  |  | | |

1. **Real World Relationships:** Decide whether or not you think the relationships below are linear. Justify your answers.

|  |  |
| --- | --- |
| The cost of a movie ticket over time | The total distance you can drive in terms of the number of gallons of gas in your gas tank |

1. **Verbal Descriptions of Functions:** Decide whether or not you think the relationships below are linear.

|  |  |
| --- | --- |
| When *x* increases by 2, *y* doubles. | When *x* increases by 2, *y* increases by 3. |
| When *x* doubles, *y* increases by 2. | When *x* doubles, *y* triples. |